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AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior listings and versions:

1-117. (cancelled)

118. (previously presented): A method of inhibiting expression of an endogenous cellular gene in a cell, the method comprising the step of:

contacting a first target site in the endogenous cellular gene with a first zinc finger protein, wherein said first zinc finger protein is engineered and wherein the Kd of the zinc finger protein is less than about 25 nM;

thereby inhibiting expression of the endogenous cellular gene.

- 119. (previously presented): The method of claim 118, wherein the step of contacting further comprises contacting a second target site in the endogenous cellular gene with a second zinc finger protein.
- 120. (previously presented): The method of claim 119, wherein the first and second target sites are adjacent.
- 121. (previously presented): The method of claim 120, wherein the first and second zinc finger are covalently linked to form a fusion protein.
- 122. (previously presented): The method of claim 118, wherein the first zinc finger protein is a fusion protein comprising a regulatory domain.
- 123. (previously presented): The method of claim 122, wherein the first zinc finger protein is a fusion protein comprising at least two regulatory domains.
- 124. (previously presented): The method of claim 119, wherein the first and second zinc finger proteins are fusion proteins, each comprising a regulatory domain.
- 125. (previously presented): The method of claim 124, wherein the first and second zinc finger protein are fusion proteins, each comprising at least two regulatory domains.

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126. (previously presented): A method of inhibiting expression of an endogenous cellular gene in a cell, the method comprising the step of:

contacting a target site in the endogenous cellular gene with an engineered fusion zinc finger protein comprising six fingers and a regulatory domain, wherein the Kd of the zinc finger protein is less than about 25 nM;

thereby inhibiting expression of the endogenous cellular gene.

- 127. (previously presented): The method of claim 118, wherein the cell is selected from the group consisting of an animal cell, a plant cell, a bacterial cell, a protozoal cell, and a fungal cell.
- 128. (previously presented): The method of claim 127, wherein the cell is a mammalian cell.
 - 129. (previously presented): The method of claim 128, wherein the cell is a human cell.
- 130. (previously presented): The method of claim 118, wherein expression of the endogenous cellular gene is inhibited by at least about 20%.
- 131. (previously presented): The method of claim 118, wherein the endogenous cellular gene is selected from the group consisting of VEGF, ER*, IGF-1, c-myc, c-myb, ICAM, and Her2/Neu.
- 132. (previously presented): The method of claim 131, wherein the endogenous cellular gene is VEGF.
- 133. (previously presented): The method of claim 118, wherein the inhibition of gene expression prevents gene activation.
- 134. (previously presented): The method of claim 122, wherein the regulatory domain is selected from the group consisting of a transcriptional repressor, an endonuclease, a methyl transferase, and a histone deacetylase.

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135. (previously presented): The method of claim 124, wherein the regulatory domain is selected from the group consisting of a transcriptional repressor, an endonuclease, a methyl transferase, and a histone deacetylase.

- 136. (previously presented): The method of claim 118, wherein the method further comprises the step of first administering to the cell a delivery vehicle comprising the zinc finger protein, wherein the delivery vehicle comprises a liposome or a membrane translocation polypeptide.
- 137. (previously presented): The method of claim 118, wherein the target site is upstream of a transcription initiation site of the endogenous cellular gene.
- 138. (previously presented): The method of claim 118, wherein the target site is adjacent to a transcription initiation site of the endogenous cellular gene.
- 139. (previously presented): The method of claim 118, wherein the zinc finger protein comprises an SP-1 backbone.
- 140. (previously presented): The method of claim 139, wherein the zinc finger protein comprises a regulatory domain and is humanized.
- 141. (previously presented): A method of activating expression of an endogenous cellular gene, the method comprising the step of:

contacting a first target site in the endogenous cellular gene with a first zinc finger protein, wherein said first zinc finger protein is engineered and wherein the Kd of the zinc finger protein is less than about 25 nM;

thereby activating expression of the endogenous cellular gene.

- 142. (previously presented): The method of claim 141, wherein the step of contacting further comprises contacting a second target site in the endogenous cellular gene with a second zinc finger protein.
- 143. (previously presented): The method of claim 142, wherein the first and second target sites adjacent.

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- 144. (previously presented): The method of claim 143, wherein the first and second zinc finger proteins are covalently linked to form a fusion protein.
- 145. (previously presented): The method of claim 141, wherein the first zinc finger protein is a fusion protein comprising a regulatory domain.
- 146. (previously presented): The method of claim 145, wherein the first zinc finger protein is a fusion protein comprising at least two regulatory domains.
- 147. (previously presented): The method of claim 142, wherein the first and second zinc finger proteins are fusion proteins, each comprising a regulatory domain.
- 148. (previously presented): The method of claim 147, wherein the first and the second zinc finger protein are fusion proteins, each comprising at least two regulatory domains.
- 149. (previously presented): A method of activating expression of an endogenous cellular gene, the method comprising the step of:

contacting a target site in the endogenous cellular gene with an engineered fusion zinc finger protein comprising six fingers and a regulatory domain, wherein the Kd of the zinc finger protein is less than about 25 nM;

thereby activating expression of the endogenous cellular gene.

- 150. (previously presented): The method of claim 141, wherein the cell is selected from the group consisting of an animal cell, a plant cell, a bacterial cell, a protozoal cell, and a fungal cell.
- 151. (previously presented): The method of claim 150, wherein the cell is a mammalian cell.
 - 152. (previously presented): The method of claim 151, wherein the cell is a human cell.
- 153. (previously presented): The method of claim 141, wherein expression of the endogenous cellular gene is activated to at least about 150%.

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- 154. (previously presented): The method of claim 141, wherein the endogenous cellular gene is selected from the group consisting of FAD2-1, EPO, GM-CSF, GDNF, VEGF, and LDL-R.
- 155. (previously presented): The method of claim 154, wherein the endogenous cellular gene is VEGF.
- 156. (previously presented): The method of claim 141, wherein the activation of gene expression prevents repression of gene expression.
- 157. (previously presented): The method of claim 145, wherein the regulatory domain is selected from the group consisting of a transcriptional activator and a histone acetyltransferase.
- 158. (previously presented): The method of claim 147, wherein the regulatory domain is selected from the group consisting of a transcriptional activator and a histone acetyltransferase.
- 159. (previously presented): The method of claim 141, wherein the target site is upstream of a transcription initiation site of the endogenous cellular gene.
- 160. (previously presented): The method of claim 141, wherein the target site is adjacent to a transcription initiation site of the endogenous cellular gene.
- 161. (previously presented): The method of claim 141, wherein the zinc finger protein comprises an SP-1 backbone.
- 162. (previously presented): The method of claim 161, wherein the zinc finger protein comprises a regulatory domain and is humanized.
- 163. (previously presented): A method of modulating expression of an endogenous cellular gene in a cell, the method comprising the step of:

contacting a first target site in the endogenous cellular gene with a first zinc finger protein, wherein said first zinc finger protein is engineered;

thereby modulating expression of the endogenous cellular gene

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- 164. (previously presented): The method of claim 163, wherein the step of contacting further comprises contacting a second target site in the endogenous cellular gene with a second zinc finger protein.
- 165. (previously presented): The method of claim 164, wherein the first and second target sites are adjacent.
- 166. (previously presented): The method of claim 165, wherein the first and second zinc finger proteins are covalently linked to form a fusion protein.
- 167. (previously presented): The method of claim 163, wherein the first zinc finger protein is a fusion protein comprising a regulatory domain.
- 168. (previously presented): The method of claim 167, wherein the first zinc finger protein is a fusion protein comprising at least two regulatory domains.
- 169. (previously presented): The method of claim 164, wherein the first and second zinc finger proteins are fusion proteins, each comprising a regulatory domain.
- 170. (previously presented): The method of claim 169, wherein the first and second zinc finger protein are fusion proteins, each comprising at least two regulatory domains.
- 171. (previously presented): A method of modulating expression of an endogenous cellular gene in a cell, the method comprising the step of:

contacting a target site in the endogenous cellular gene with an engineered fusion zinc finger protein comprising six fingers and a regulatory domain;

thereby modulating expression of the endogenous cellular gene.

172. (previously presented): The method of claim 163, wherein the cell is selected from the group consisting of an animal cell, a plant cell, a bacterial cell, a protozoal cell, and a fungal cell.

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- 173. (previously presented): The method of claim 172, wherein the cell is a mammalian cell.
 - 174. (previously presented): The method of claim 173, wherein the cell is a human cell.
- 175. (previously presented): The method of claim 163, wherein the endogenous cellular gene is selected from the group consisting of VEGF, ER*, IGF-1, e-myc, c-myb, ICAM, Her2/Neu, FAD2-1, EPO, GM-CSF, GDNF, and LDL-R.
- 176. (previously presented): The method of claim 175, wherein the endogenous cellular gene is VEGF.
- 177. (previously presented): The method of claim 167, wherein the regulatory domain is selected from the group consisting of a transcriptional repressor, a transcriptional activator, an endonuclease, a methyl transferase, a histone acetyltransferase, and a histone deacetylase.
- 178. (previously presented): The method of claim 169, wherein the regulatory domain is selected from the group consisting of a transcriptional repressor, a transcriptional activator, an endonuclease, a methyl transferase, a histone acetyltransferase, and a histone deacetylase.
- 179. (previously presented): The method of claim 163, wherein the method further comprises the step of first administering to the cell a delivery vehicle comprising the zinc finger protein, wherein the delivery vehicle comprises a liposome or a membrane translocation polypeptide.
- 180. (previously presented): The method of claim 163, wherein the target site is upstream of a transcription initiation site of the endogenous cellular gene.
- 181. (previously presented): The method of claim 163, wherein the target site is adjacent to a transcription initiation site of the endogenous cellular gene.
- 182. (previously presented): The method of claim 163, wherein the zinc finger protein comprises an SP-1 backbone.

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183. (previously presented): The method of claim 182. wherein the zinc finger protein comprises a regulatory domain and is humanized.

- 184. (new): A fusion protein comprising an engineered zinc finger protein and a membrane translocation peptide.
- 185. (new): The fusion protein of claim 184, wherein the membrane translocation peptide comprises the third helix of an *Antennapedia* homeodomain protein.